

Claim Amendments

This listing of claims will replace all prior versions, and listings, of claims in the application

Claims 1-11. (Canceled).

Claim 12. (Currently Amended): A thermoplastic polyurethane comprising a segment A formed of a high molecular weight diol, a segment B formed of a low molecular weight diol, and a segment C formed of a polyisocyanate, said segments A, B and C are bonded together in a linear form by urethane bonds, said high molecular weight diol is a mixture of a polyether diol and a polysiloxane diol, each diol having a number average molecular weight ranging from 1,000 to 10,000, wherein said polysiloxane diol is an ester-modified polysiloxane diol that is obtained by copolymerizing an alkyl-alcohol-modified siloxane with ϵ -caprolactone and wherein said high molecular weight diol, said low molecular weight diol and said polyisocyanate are used in proportions of 100 parts by weight, from 10 to 120 parts by weight and from 20 to 170 parts by weight, respectively, and said thermoplastic polyurethane has an impact resilience at 23°C ranging from 50 to 90 % and has an impact resilience at 0°C of at least 0.6 times of its impact resilience at 23°C.

Claim 13. (Previously Presented): A thermoplastic polyurethane according to claim 12, wherein said high molecular weight diol, said low molecular weight diol and said polyisocyanate are used in proportions of 100 parts by weight, from 11 to 42 parts by weight and from 39 to 76 parts by weight, respectively.

Claim 14. (Previously Presented): A thermoplastic polyurethane according to claim 12, wherein said high molecular weight diol, said low molecular weight diol and said

polyisocyanate are used in proportions of 100 parts by weight, from 20 to 30 parts by weight and from 50 to 60 parts by weight, respectively.

Claim 15. (Previously Presented): A thermoplastic polyurethane according to claim 12, wherein said low molecular weight diol is selected from the group consisting of 1,4-bis(hydroxyethoxy)benzene, 1,3-propanediol and mixtures thereof.

Claim 16. (Previously Presented): A thermoplastic polyurethane according to claim 12, wherein said polyisocyanate is 4,4'-diphenylmethane diisocyanate.

Claim 17. (Previously Presented): A golf ball comprising a thermoplastic polyurethane according to claim 12.

Claim 18. (Previously Presented): A golf ball comprising a core and a cover, wherein the cover comprises a thermoplastic polyurethane according to claim 12.

Claim 19. (Currently Amended) A thermoplastic polyurethane according to claim 12, wherein said polyether diol is polytetramethylene ether glycol[[,]] and said polysiloxane diol is an ester modified polysiloxane diol.

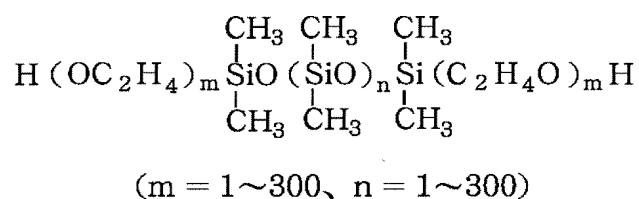
Claim 20. (Previously Presented) A thermoplastic polyurethane according to claim 19, wherein said polyisocyanate is 4,4'-diphenylmethane diisocyanate.

Claim 21. (Previously Presented) A thermoplastic polyurethane according to claim 20, wherein said low molecular weight diol is 1,4-bis(hydroxyethoxy)benzene.

Claim 22. (Previously Presented) A thermoplastic polyurethane according to claim 20, wherein said low molecular weight diol is 1,3-propanediol.

Claims 23-26. (Canceled)

Claim 27. (New) A thermoplastic polyurethane according to claim 12, wherein said alkyl-alcohol-modified siloxane has the following structure:



wherein subscript n is a number which requires the resulting diol compound to have an OH value of 35.

Claim 28. (New) A thermoplastic polyurethane according to claim 27, wherein said polyisocyanate is 4,4'-diphenylmethane diisocyanate.

Claim 29. (New) A thermoplastic polyurethane according to claim 28, wherein said low molecular weight diol is 1,4-bis(hydroxyethoxy)benzene.

Claim 30. (New) A golf ball comprising a thermoplastic polyurethane according to claim 21.

Claim 31. (New) A golf ball comprising a thermoplastic polyurethane according to claim 22.

Claim 32. (New) A golf ball comprising a core and a cover, wherein said cover comprises a thermoplastic polyurethane according to claim 21.

Claim 33. (New) A golf ball comprising a core and a cover, wherein said cover comprises a thermoplastic polyurethane according to claim 22.

Claim 34. (New) A golf ball comprising a thermoplastic polyurethane according to claim 28.

Claim 35. (New) A golf ball comprising a thermoplastic polyurethane according to claim 29.

Claim 36. (New) A golf ball comprising a core and a cover, wherein said cover comprises a thermoplastic polyurethane according to claim 28.

Claim 37. (New) A golf ball comprising a core and a cover, wherein said cover comprises a thermoplastic polyurethane according to claim 29.